

**STRUCTURE OF THE PLANKTIVOROUS FISH
COMMUNITY ALONG A DEPTH GRADIENT**

W. B. GLADFELTER,
W. S. JOHNSON,
and
JEFFERY DAVIDSON

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Purpose: To study the structure of the planktivorous fish community along a depth gradient (Report No. 79-6)

Participants: W. B. Gladfelter, Principal Investigator—Fairleigh Dickinson University, West Indies Laboratory, W. S. Johnson, Co-Principal Investigator—Goucher College, and Jeffery Davidson—National Institutes of Health

Accomplishments: The plankton feeding fishes (*Clepticus*, *Chromis cyanea*, *multilineata*, *C. insulata* and *Eupomacentrus partitus*) were investigated along three 50 m transects at a study area located along the east wall of the Salt River Submarine Canyon. These transects were located along the 15.2, 30.5, 100 and 45.7 m depth contours. The number and locations of these fishes were recorded in five excursions. A diver-towed plankton net was used to collect plankton along the same transect. Ten specimens were collected for further study. The results were preliminary requiring more definite fish and plankton identifications.